UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/643,610	08/19/2003	Samuel Mark Gillette	9305-11IP	4941

20792 7590 03/11/2005

MYERS BIGEL SIBLEY & SAJOVEC
PO BOX 37428
RALEIGH, NC 27627

EXAMINER	
PIZIALI, ANDREW T	

ART UNIT	PAPER NUMBER
1771	

DATE MAILED: 03/11/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/643,610	GILLETTE ET AL.	
	Examiner	Art Unit	
	Andrew T Piziali	1771	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *10 February 2005*.

2a)☒ This action is **FINAL**. 2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-59* is/are pending in the application.

4a) Of the above claim(s) *1-31* is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *32-59* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *8/19/2003* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

GB

DETAILED ACTION

Response to Amendment

1. The amendment filed on 2/10/2005 has been entered.

Election/Restrictions

2. Applicant's election with traverse of Group II, claims 32-59, in the reply filed on 2/10/2005, is acknowledged. The traversal is on the grounds that it would not create an undue hardship on the examiner to search both Groups I and II together. This is not found persuasive because these inventions are distinct and have acquired a separate status in the art as shown by their different classification. A search in two distinct classes demonstrates an undue burden on the examiner.

The requirement is still deemed proper and is therefore made FINAL.

Oath/Declaration

3. The declaration filed on 2/10/2005 has been entered.

Claim Objections

4. Claims 34 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim, or amend the claim to place the claim in proper dependent form, or rewrite the claim in independent form. In the amendment filed on 2/10/2005 (see page 17) the applicant stated "Hooks of a hook component are ensnarled by the loop structures of a female loop member in the same way regardless of the density of the hooks, and one skilled in the art would understand this." Therefore, considering that claim 32 already establishes that the loop structures are part of

a hook and loop fastening system (the loops are configured to engage the hooks), claim 34 fails to further limit the subject matter of a previous claim.

Claim Rejections - 35 USC § 112

5. The following is a quotation of the first paragraph of 35 U.S.C. 112:

> The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

6. Claims 35-39, 54-55 and 58-59 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claims contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. Regarding claims 35 and 58, the specification fails to teach how to configure the loop structures to engage hooks from a hook component having the claimed hook lengths. Regarding claims 36-39 and 59, the specification fails to teach how to make loop structures with the claimed peel strengths or sheer strengths. Regarding claim 54, the specification fails to teach how to make a spunlaced fabric and backing layer with the claimed Frazier air permeability. Regarding claim 55, the specification fails to teach how to make a spunlaced fabric and backing layer with the claimed MD grab tensile strength.

7. The following is a quotation of the second paragraph of 35 U.S.C. 112:

> The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

8. Claims 32-59 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as

the invention. Claims 32 and 56 state that the plurality of loop structures define a landing zone and that the loop structures in the landing zone contain no interbonded fibers. The claims also state that between about 2% to about 25% of the surface area of the landing zone is bonded. It is not clear how the loop structures can contain no interbonded fibers but yet be about 2% to about 25% bonded.

Claim Rejections - 35 USC § 102/103

9. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

10. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

11. Claims 32, 35, 40, 42-46, 48-50 and 52-53 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over USPN 5,326,612 to Goulait.

Regarding claims 32, 35, 40, 42-46, 48-50 and 52-53, Goulait discloses a loop component for use in a hook and loop fastening system comprising a nonwoven web fabric having a plurality of loop structures formed by entangling a plurality of non-interbonded fibers in a fibrous web of material wherein between about two percent and about twenty-five percent of a

surface area of the fabric is bonded in one or more patterns (see entire document including column 1, lines 7-11, column 8, lines 53-63, column 12, lines 41-61, column 13, lines 46-50, column 14, lines 48-61, and column 22, lines 39-51).

Goulait does not specifically mention the use of spunlaced fabric, but Goulait does disclose that the nonwoven web can be produced by many different processes including carding or spunbonding without a subsequent bonding step (column 13, lines 46-50). Absent a showing to the contrary, it is the examiner's position that the article of the applied prior art is identical to or only slightly different than the claimed article. Even though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process. *In re Thorpe*, 227 USPQ 964, 966 (Fed. Cir. 1985). The burden has been shifted to the applicant to show obvious difference between the claimed product and the prior art product. *In re Marosi*, 218 USPQ 289 (Fed. Cir. 1983). The applied prior art either anticipated or strongly suggested the claimed subject matter. It is noted that if the applicant intends to rely on Examples in the specification or in a submitted declaration to show non-obviousness, the applicant should clearly state how the Examples of the present invention are commensurate in scope with the claims and how the Comparative Examples are commensurate in scope with the applied prior art.

Regarding claim 35, Goulait discloses that the hooks may have a length of about 0.3 mm (column 19, lines 26-50).

Regarding claim 40, Goulait discloses that the fibers may have a denier of between 0.5 and 15 (column 3, lines 38-66 and column 11, lines 5-28).

Regarding claim 42, Goulait discloses that the nonwoven web preferably has a thickness sufficient to accommodate the hooks of the material hooking component (column 22, lines 52-63). Considering that Goulait discloses that the hooks may have a length of about 12 mils (column 19, lines 26-50), Goulait teaches, or at least strongly suggests, that the nonwoven web may have a thickness of between about 10 and 95 mils.

Regarding claim 43, Goulait discloses that the non-interbonded fibers may comprise any suitable material such as polypropylene, polyethylene, PET, polyester, or any combination and/or mixture of these and other suitable materials known in the nonwoven fabric industry (column 12, lines 18-32).

Regarding claim 44, Goulait discloses that nonwoven web may be embossed with a decorative pattern (column 16, lines 36-43).

Regarding claims 45-46, 48-50 and 52-53, Goulait discloses that a backing layer may be bonded to the nonwoven web (column 3, lines 38-66 and column 14, lines 1-40).

Regarding claims 46 and 49, Goulait discloses that the backing layer may comprise any suitable material such as polypropylene, polyethylene, or polyester (column 14, lines 11-27).

Regarding claim 48, Goulait discloses that the backing layer may be bonded to the nonwoven web either thermally, adhesively, autogenenously, or ultrasonically (column 14, lines 33-40 and column 15, lines 46-48).

Regarding claim 50, Goulait discloses that the backing layer may have a thickness between about 0.4 and 40 mils (column 14, lines 11-27).

Regarding claim 52, Goulait discloses that the nonwoven web preferably has a thickness sufficient to accommodate the hooks of the material hooking component (column 22, lines 52-63). Considering that Goulait discloses that the hooks may have a length of about 12 mils (column 19, lines 26-50), Goulait teaches, or at least strongly suggests, that the nonwoven web may have a thickness of between about 10 and 95 mils. Goulait also discloses that the backing layer may have a thickness between about 0.4 and 40 mils (column 14, lines 11-27). Therefore, Goulait discloses that the overall thickness of the loop component may be between about 8 mils and 400 mils.

Regarding claim 53, Goulait discloses that the nonwoven web may have a basis weight of between about 6 and about 42 grams per square meter (column 3, lines 38-66). Goulait does not specifically mention a basis weight range for the backing layer, but considering that the nonwoven web alone may have a basis weight of greater than or equal to 19 grams per square meter, and considering that the backing layer is positioned directly under the nonwoven web layer, Goulait discloses that the overall basis weight of the loop component may be greater than or equal to 19 grams per square meter.

Claim Rejections - 35 USC § 103

12. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

13. Claims 32, 34-56 and 58-59 are rejected under 35 U.S.C. 103(a) as being unpatentable over USPN 5,326,612 to Goulait in view of USPN 6,503,855 to Menzies et al. (hereinafter referred to as Menzies).

Regarding claims 32, 34-56 and 58-59, Goulait discloses a loop component for use in a hook and loop fastening system comprising a nonwoven web fabric having a plurality of loop structures formed by entangling a plurality of non-interbonded fibers in a fibrous web of material wherein between about two percent and about twenty-five percent of a surface area of the fabric is bonded in one or more patterns (see entire document including column 1, lines 7-11, column 8, lines 53-63, column 12, lines 41-61, column 13, lines 46-50, column 14, lines 48-61, and column 22, lines 39-51).

Goulait discloses that the nonwoven web can be produced by many different processes including carding or spunbonding (column 13, lines 46-50), but Goulait does not specifically mention the use of a nonwoven spunlaced fabric. Menzies discloses that it is known in the art that a spunlaced nonwoven web fabric may be used to produce the loop component in a hook and loop fastening system (see entire document including column 15, lines 7-24). It would have been obvious to one having ordinary skill in the art at the time the invention was made to make the nonwoven web fabric of Goulait from any suitable nonwoven web material, such as a spunlaced nonwoven web fabric, as taught by Menzies, because it is within the general skill of a worker in the art to select a known material on the basis of its suitability.

Regarding claims 34, 56 and 58-59, Goulait does not mention a specific hook density, but Goulait discloses that the amount of open space between the fibers may be varied depending on the size of the hooks (column 8, lines 4-11). Goulait also discloses that the number of hooks can

be varied depending on the intended use (column 17, lines 52-60). It would have been obvious to one having ordinary skill in the art at the time the invention was made to vary the hook density, such as from about 30 to about 400 hooks per square centimeter, depending on the intended use, because it is understood by one of ordinary skill in the art that the strength of the hook and loop fastening system depends directly on the hook density and because it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art.

Regarding claims 35 and 58, Goulait discloses that the hooks may have a length of about 0.3 mm (column 19, lines 26-50).

Regarding claims 36-39 and 59, Goulait does not specifically mention the average peel strength, maximum load peel strength, average peak shear strength, or maximum average peel strength of the loop structures, but Goulait does disclose that the strength of the loop structures can be approximated from the basis weight of the web, the denier, and material composition of the fibers (column 9, lines 50-54). It would have been obvious to one having ordinary skill in the art at the time the invention was made to vary the basis weight, denier, and/or material composition of the fibers to obtain the desired average peel strength, maximum load peel strength, average peak shear strength, or maximum average peel strength of the loop structures, because it is understood by one of ordinary skill in the art that the basis weight, denier, and material composition of the fibers determines the strength of the loop structures and because it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art.

Regarding claim 40, Goulait discloses that the fibers may have a denier of between 0.5 and 15 (column 3, lines 38-66 and column 11, lines 5-28).

Regarding claims 41 and 47, Goulait does not specifically mention a density range of the fibers, but Goulait does disclose that the density of the fibers can be varied depending on the intended use and the desired strength (column 17, lines 52-60). It would have been obvious to one having ordinary skill in the art at the time the invention was made to vary the density of the fibers, such as from 0.1 to 1.2 grams per cubic centimeter, because it is understood by one of ordinary skill in the art that the strength of the nonwoven web depends directly on the fiber density and because it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art.

Regarding claim 42, Goulait discloses that the nonwoven web preferably has a thickness sufficient to accommodate the hooks of the material hooking component (column 22, lines 52-63). Considering that Goulait discloses that the hooks may have a length of about 12 mils (column 19, lines 26-50), Goulait teaches, or at least strongly suggests, that the nonwoven web may have a thickness of between about 10 and 95 mils.

Regarding claims 43 and 47, Goulait discloses that the non-interbonded fibers may comprise any suitable material such as polypropylene, polyethylene, PET, polyester, or any combination and/or mixture of these and other suitable materials known in the nonwoven fabric industry (column 12, lines 18-32).

Regarding claim 44, Goulait discloses that nonwoven web may be embossed with a decorative pattern (column 16, lines 36-43).

Regarding claims 45-49 and 50-55, Goulait discloses that a backing layer may be bonded to the nonwoven web (column 3, lines 38-66 and column 14, lines 1-40).

Regarding claims 46 and 49, Goulait discloses that the backing layer may comprise any suitable material such as polypropylene, polyethylene, or polyester (column 14, lines 11-27).

Regarding claim 48, Goulait discloses that the backing layer may be bonded to the nonwoven web either thermally, adhesively, autogenenously, or ultrasonically (column 14, lines 33-40 and column 15, lines 46-48).

Regarding claim 50, Goulait discloses that the backing layer may have a thickness between about 0.4 and 40 mils (column 14, lines 11-27).

Regarding claim 51, Goulait does not mention the a specific density range for the backing layer, but Goulait does disclose that the loop component may be used in clothing, disposable articles, and various miscellaneous articles such as safety belts and the like (column 1, lines 14-25). It would have been obvious to one having ordinary skill in the art at the time the invention was made to vary the density of the backing layer, based on the wide variety of possible uses for the loop component, because the desired density in dependant on the intended use and because the backing layer merely provides a foundation for the nonwoven web (column 14, lines 1-10).

Regarding claim 52, Goulait discloses that the nonwoven web preferably has a thickness sufficient to accommodate the hooks of the material hooking component (column 22, lines 52-63). Considering that Goulait discloses that the hooks may have a length of about 12 mils (column 19, lines 26-50), Goulait teaches, or at least strongly suggests, that the nonwoven web may have a thickness of between about 10 and 95 mils. Goulait also discloses that the backing layer may have a thickness between about 0.4 and 40 mils (column 14, lines 11-27). Therefore,

Goulait discloses that the overall thickness of the loop component may be between about 8 mils and 400 mils.

Regarding claim 53, Goulait discloses that the nonwoven web may have a basis weight of between about 6 and about 42 grams per square meter (column 3, lines 38-66). Goulait does not specifically mention a basis weight range for the backing layer, but considering that the nonwoven web alone may have a basis weight of greater than or equal to 19 grams per square meter, and considering that the backing layer is positioned directly under the nonwoven web layer, Goulait discloses that the overall basis weight of the loop component may be greater than or equal to 19 grams per square meter.

Regarding claim 54, Goulait does not specifically mention a Frazier air permeability value of the disclosed loop component, but Goulait does disclose that the nonwoven web may have open spaces and that the open spaces may vary in size (column 7, lines 37-50, column 8, lines 4-11 and the paragraph bridging column 8 and 9). Goulait also discloses that the loop component may be used in clothing, disposable articles, and various miscellaneous articles such as safety belts and the like (column 1, lines 14-25). It would have been obvious to one having ordinary skill in the art at the time the invention was made to vary the size of the openings, such that the Frazier air permeability is less than about 25 cubic feet per minute, such that the permeability is that desired for the intended application, and because it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art.

Regarding claim 55, Goulait does not specifically mention the MD grab tensile strength of the nonwoven web and backing layer, but Goulait does disclose that the strength of the loop structures can be approximated from the basis weight of the web, the denier, and material

composition of the fibers (column 9, lines 50-54). It would have been obvious to one having ordinary skill in the art at the time the invention was made to vary the basis weight, denier, and/or material composition of the fibers to obtain the desired MD grab tensile strength, because it is understood by one of ordinary skill in the art that the basis weight, denier, and material composition of the fibers determines the strength of the loop structures and because it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art.

14. Claim 33 is rejected under 35 U.S.C. 103(a) as being unpatentable over USPN 5,326,612 to Goulait as applied to claims 32, 35, 40, 42-46, 48-50 and 52-53 above, and further in view of any one of USPN 6,217,693 to Pelham or USPN 6,342,285 to Shepard et al. (hereinafter referred to as Shepard).

Goulait does not mention stretching the fabric, but Pelham and Shepard each disclose that it is known in the hook and loop art to stretch a nonwoven fabric in the cross web direction between about five percent and about one hundred twenty-five percent to increase the area of the product and to improve the strength of anchorage of the loops (see entire document of Pelham including column 2, line 54 through column 3, line 25, see entire document of Shepard including the paragraph bridging columns 15 and 16). It would have been obvious to one having ordinary skill in the art at the time the invention was made to stretch the nonwoven fabric of Goulait, as taught by each of Pelham and Shepard, because the stretching increases the area of the product and improves the strength of anchorage of the loops.

15. Claims 33 and 57 are rejected under 35 U.S.C. 103(a) as being unpatentable over USPN 5,326,612 to Goulait in view of USPN 6,503,855 to Menzies as applied to claims 32, 34-56 and

58-59 above, and further in view of any one of USPN 6,217,693 to Pelham or USPN 6,342,285 to Shepard.

Goulait does not mention stretching the fabric, but Pelham and Shepard each disclose that it is known in the hook and loop art to stretch a nonwoven fabric in the cross web direction between about five percent and about one hundred twenty-five percent to increase the area of the product and to improve the strength of anchorage of the loops (see entire document of Pelham including column 2, line 54 through column 3, line 25, see entire document of Shepard including the paragraph bridging columns 15 and 16). It would have been obvious to one having ordinary skill in the art at the time the invention was made to stretch the nonwoven fabric of Goulait, as taught by each of Pelham and Shepard, because the stretching increases the area of the product and improves the strength of anchorage of the loops.

Response to Arguments

16. Applicant's arguments filed 2/10/2005 have been fully considered but they are not persuasive.

Regarding the 112 rejection of claims 35 and 38, the applicant groups the argument against claims 34-35 and 58 together, but the argument primarily focused on the claimed hook density of claim 34 and failed to specifically address the claimed hook lengths of claims 35 and 38. The examiner continues to assert that the specification fails to teach how to configure the loop structures to engage hooks from a hook component having the claimed hook lengths.

Regarding the 112 rejection of claims 36-39, 54-55 and 59, the applicant stated "the claimed loop component achieves the various claimed properties as a result of the absence of interbonded fibers in the loop structures." The examiner contends that more than just the

absence of interbonded fibers is necessary to obtain the various claimed properties. Achievement of the claimed various properties also depends on the chosen fiber material and the chosen fiber diameter. The claimed invention is not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

The applicant asserts that Goulait requires interbonded fibers. The examiner respectfully disagrees. In column 8, lines 53-63, Goulait discloses that the fibers may be held together by interlocking or bonding. In column 12, lines 41-49, Goulait discloses that the female component could be made by bonding an unbonded layer of loose fibers to a backing material, in which case there may be no interfiber bonds. In column 22, lines 39-51, Goulait discloses that the fibers may be in the form of a layer of loose fibers or a web of bonded fibers. Goulait clearly does not require interbonded fibers.

Although the applicant admits that Goulait discloses that a female component of a hook and loop fastening system can be made by bonding an unbonded layer of loose fibers to a backing material, the applicant asserts that Goulait must bond the fibers together because loose fibers do not have loop structures. The examiner respectfully disagrees. Goulait discloses that the loose fibers of the female component are held together by interlocking (column 8, lines 53-63). In addition, Goulait discloses that the loose fibers are secured to a backing (column 5, lines 36-47). As admitted by the applicant on page 7, lines 32-33 of the current specification, bonding interlocked loose fibers to a backing layer produces a loop component.

The applicant asserts that Goulait fails to teach or suggest bonding between about 2% to about 25% of the surface area in one or more patterns. The examiner respectfully disagrees.

Goulait discloses that about 10% of the surface area may be bonded in one or more patterns (column 12, lines 50-61, column 14, lines 48-61, and column 15, line 66 through column 17, line 20).

Conclusion

17. Applicant's amendment necessitated the new grounds of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew T Piziali whose telephone number is (571) 272-1541. The examiner can normally be reached on Monday-Friday (8:00-4:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Terrel Morris can be reached on (571) 272-1478. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

atp

3/3/05

ANDREW T. PIZIALI
PATENT EXAMINER

TERREL MORRIS
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1700